

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/993,179

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ✓ Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

0590
07/7

H 6



ENTERED

OIPE

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/993,179B

TIME: 14:12:39

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\07222002\I993179B.raw

```

4 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
5   McCarthy, Sean A.
6   Bossone, Steven
8 <120> TITLE OF INVENTION: SECRETED PROTEINS AND NUCLEIC ACIDS ENCODING THEM
10 <130> FILE REFERENCE: MBIO1997-018DV1ACN1M
12 <140> CURRENT APPLICATION NUMBER: US 09/993,179B
C--> 13 <141> CURRENT FILING DATE: 2001-11-06
15 <150> PRIOR APPLICATION NUMBER: 09/436,183
16 <151> PRIOR FILING DATE: 1999-11-08
18 <150> PRIOR APPLICATION NUMBER: 08/966,269
19 <151> PRIOR FILING DATE: 1997-11-07
21 <160> NUMBER OF SEQ ID NOS: 15
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 517
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo Sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (368)...(517)
34 <400> SEQUENCE: 1
35 ggggaccgtg tttgtggccc ccaagccggt gccccccatt ttggaactca gcgagtaggg 60
36 ggcggctctg gggaagtggc agggggcgca gcagctgctg cctccacttc cctagccagg 120
37 tgctgaagag gatcttcgga gccgctctgg cccccaggcg ctggatgact ggcaccagcg 180
38 ctctctgcac ctgtgttggt gtgtgagact tgggctggag tgcccacgtg gctgtggagt 240
39 cagtgtgatt catgattgag gaaacgcgtc ctccatctc tctctccttg gcactttcca 300
40 cacatgagga gaagaagagc ttctgtttag aagacacgtg cccagagtca gaggccccctt 360
41 gccacc atg aag gga acc tgt gtt ata gca tgg ctg ttc tca agc ctg 409
42 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu
43 1 5 10
45 ggg ctg tgg aga ctc gcc cac cca gag gcc cag ggt acg act cag tgc 457
46 Gly Leu Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys
47 15 20 25 30
49 cag aga aca ctc gag gtg aat att gtt tcc ccc agc tcc aag gca aca 505
50 Gln Arg Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr
51 35 40 45
53 ttc agt cca agt 517
54 Phe Ser Pro Ser
55 50
58 <210> SEQ ID NO: 2
59 <211> LENGTH: 50
60 <212> TYPE: PRT
61 <213> ORGANISM: Homo Sapiens

```

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/993,179B

TIME: 14:12:39

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\07222002\I993179B.raw

```

63 <400> SEQUENCE: 2
64 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu
65 1 5 10 15
66 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg
67 20 25 30
68 Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser
69 35 40 45
70 Pro Ser
71 50
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 506
76 <212> TYPE: DNA
77 <213> ORGANISM: Homo Sapiens
79 <220> FEATURE:
80 <221> NAME/KEY: CDS
81 <222> LOCATION: (132)...(506)
83 <400> SEQUENCE: 3
84 ttcttcctag tttctttttc ggcacaatat ttcaagttat accaagcata caatcaactc 60
85 ccaagttggg atccgaattc ggcacgagcg gcacgagttg tgcttcggag accgtaagga 120
86 tattgatgac c atg aga tcc ctg ctc aga acc ccc ttc ctg tgt ggc ctg 170
87 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu
88 1 5 10
90 ctc tgg gcc ttt tgt gcc cca ggc gcc agg gct gag gag cct gca gcc 218
91 Leu Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala
92 15 20 25
94 agc ttc tcc caa ccc ggc agc atg ggc ctg gat aag aac aca gtg cac 266
95 Ser Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His
96 30 35 40 45
98 gac caa gag cat atc atg gag cat cta gaa ggt gtc atc aac aaa cca 314
99 Asp Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro
100 50 55 60
102 gag gcg gag atg tcg cca caa gaa ttg cag ctc cat tac ttc aaa atg 362
103 Glu Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met
104 65 70 75
106 cat gat tat gat ggc aat aat ttg ctt gat ggc tta gaa ctc tcc aca 410
107 His Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr
108 80 85 90
110 gcc atc act cat gtc cat aag gag gaa ggg agt gaa cag gca cca ctc 458
111 Ala Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
112 95 100 105
114 gag gtg aat att gtt tcc ccc agc tcc aag gca aca ttc agt cca agt 506
115 Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser
116 110 115 120 125
120 <210> SEQ ID NO: 4
121 <211> LENGTH: 125
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo Sapiens
125 <400> SEQUENCE: 4
126 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala

```

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/993,179B

TIME: 14:12:39

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\07222002\I993179B.raw

```

127 1          5          10          15
128 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser
129          20          25          30
130 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
131          35          40          45
132 His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu Ala Glu
133          50          55          60
134 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
135 65          70          75          80
136 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr
137          85          90          95
138 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Glu Val Asn
139          100          105          110
140 Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser
141          115          120          125
144 <210> SEQ ID NO: 5
145 <211> LENGTH: 32
146 <212> TYPE: PRT
147 <213> ORGANISM: Mus musculus
149 <400> SEQUENCE: 5
150 Met Lys Gly Ala Cys Ile Leu Ala Trp Leu Phe Ser Ser Leu Gly Val
151 1          5          10          15
152 Trp Arg Leu Ala Arg Pro Glu Thr Gln Asp Pro Ala Lys Cys Gln Arg
153          20          25          30
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 45
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo Sapiens
161 <400> SEQUENCE: 6
162 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
163 1          5          10          15
164 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr
165          20          25          30
166 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
167          35          40          45
170 <210> SEQ ID NO: 7
171 <211> LENGTH: 28
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Primer
178 <400> SEQUENCE: 7
179 ctcgagctca gagaatcagc aactgtga
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 32
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Primer

```

28

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/993,179B

TIME: 14:12:39

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\07222002\I993179B.raw

```

189 <400> SEQUENCE: 8
190 agatcttcat actttctca tgttgatttt cc 32
192 <210> SEQ ID NO: 9
193 <211> LENGTH: 29
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Primer
200 <400> SEQUENCE: 9
201 ctcgaggtga atattgtttc ccccagctc 29
203 <210> SEQ ID NO: 10
204 <211> LENGTH: 36
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Primer
211 <400> SEQUENCE: 10
212 ctcgaggata atggtgaata ttgtttcccc cagctc 36
214 <210> SEQ ID NO: 11
215 <211> LENGTH: 16
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Primer
W--> 222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (1)...(16)
224 <223> OTHER INFORMATION: n = A,T,C or G
W--> 226 <400> 11
W--> 227 ctgactcgag nnnnnn 16
229 <210> SEQ ID NO: 12
230 <211> LENGTH: 24
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Primer
237 <400> SEQUENCE: 12
238 gagcaacggt atacggcctt cctt 24
240 <210> SEQ ID NO: 13
241 <211> LENGTH: 22
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Primer
248 <400> SEQUENCE: 13
249 gggatatgcc ccattatcca tc 22
251 <210> SEQ ID NO: 14
252 <211> LENGTH: 32
253 <212> TYPE: PRT
254 <213> ORGANISM: Homo Sapiens

```

RAW SEQUENCE LISTING

DATE: 07/22/2002

PATENT APPLICATION: US/09/993,179B

TIME: 14:12:39

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\07222002\I993179B.raw

256 <400> SEQUENCE: 14
257 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu
258 1 5 10 15
259 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg
260 20 25 30
263 <210> SEQ ID NO: 15
264 <211> LENGTH: 108
265 <212> TYPE: PRT
266 <213> ORGANISM: Homo Sapiens
268 <400> SEQUENCE: 15
269 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala
270 1 5 10 15
271 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser
272 20 25 30
273 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
274 35 40 45
275 His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Glu Ala Glu Met
276 50 55 60
277 Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr Asp
278 65 70 75 80
279 Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr His
280 85 90 95
281 Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
282 100 105

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/22/2002
PATENT APPLICATION: US/09/993,179B TIME: 14:12:40

Input Set : A:\sequence listing.txt
Output Set: N:\CRF3\07222002\I993179B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 11,12,13,14,15,16

VERIFICATION SUMMARY

DATE: 07/22/2002

PATENT APPLICATION: US/09/993,179B

TIME: 14:12:40

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\07222002\I993179B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:222 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:226 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0